

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for preparing a monovinylaromatic polymer material, comprising:
introducing a monovinylaromatic monomer feed stream into a polymerization reactor;
introducing an elastomer feed stream into said polymerization reactor;
introducing a polymerization initiator compound into said reactor, said initiator compound comprising at least one perketal and at least one peroxy carbonate in an amount of from about 150 ppm to about 800 ppm by weight; and
reacting said monomer, said initiator compound, and elastomer to form an elastomer-modified monovinylaromatic polymer having an elastomeric component of less than 28% by weight of polymer and that has toughness retained of at least 30% an ESCR level producing good or excellent resistance to oils.
2. (cancelled)
3. (previously presented) The method of claim 1 wherein said perketal comprises ethyl-3,3-di (t-butyl peroxy)-butyrate and said peroxy carbonate comprises t-Amyl 2-Ethylhexyl peroxy carbonate.
4. (previously presented) The method of claim 3 wherein said peroxy carbonate is added in amounts of from about 400 PPM to about 800 PPM by weight.
5. (original) The method of claim 4 further comprising adding to said reactor at least one chain transfer agent and at least one lubricant, said lubricant being selected from the group consisting of mineral oil and polyisobutylene.

6. (previously presented) The method of claim 5, wherein said chain transfer agent is a mercaptan.

7. (original) The method of claim 5 wherein said lubricants added are mineral oil and polyisobutylene.

8. (currently amended) A process for producing high impact polystyrene comprising:
introducing a styrene monomer feed stream into a polymerization reactor;
introducing an elastomer feedstream in an amount of from 5 to 15% by weight into said reactor along with said styrene monomer feed;
introducing an initiator compound into said reactor, said compound comprising at least one perketal initiator and at least one peroxy-carbonate initiator in an amount of from 150 ppm to about 800 ppm by weight; and
reacting said feedstreams and initiator compound to produce impact resistant polystyrene having an ESCR level producing good or excellent resistance to oils.

9. (previously presented) The process of claim 8 wherein said perketal is ethyl-3,3-di (t-butyl peroxy)-butyrate, and said peroxycarbonate is TAEC.

10. (previously presented) An elastomer-modified monovinylaromatic polymer prepared in accordance with the method of claim 1.

11. (previously presented) A high impact polystyrene prepared in accordance with the method of claim 8.

12. (previously presented) The process of claim 1, wherein the monovinylaromatic monomer is styrene.

13. (previously presented) The process of claim 8 wherein the impact resistant

polystyrene has a gel content of greater than about 10% by weight.

14. (previously presented) The process of claim 8 wherein the impact resistant polystyrene has a grafting level of greater than 130.